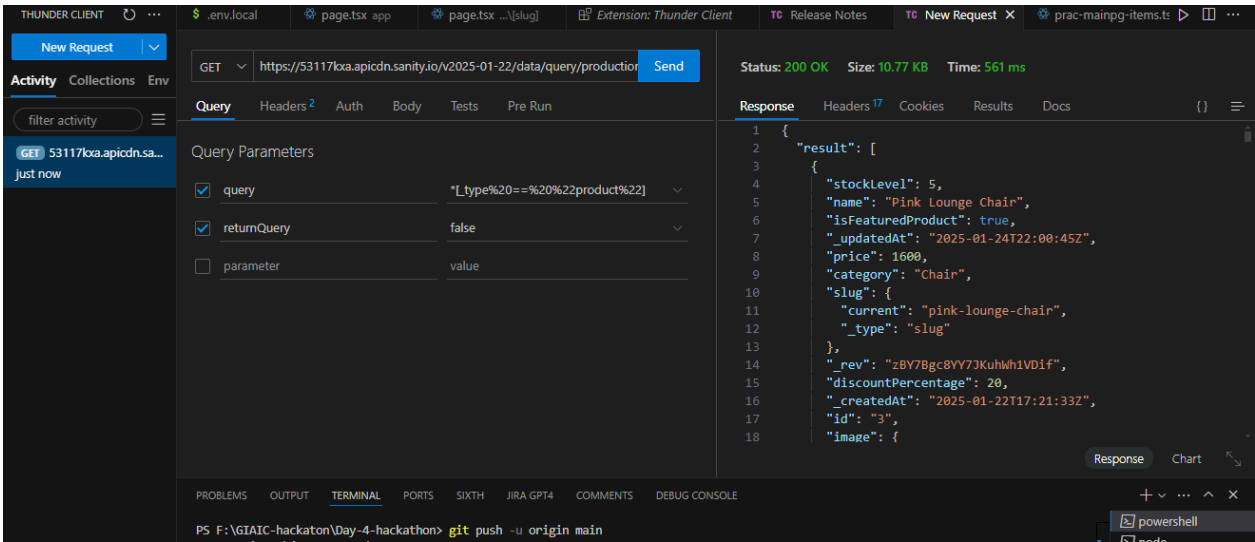


Day 5- Testing And Backend Refinement -[Niche E-Commerce]

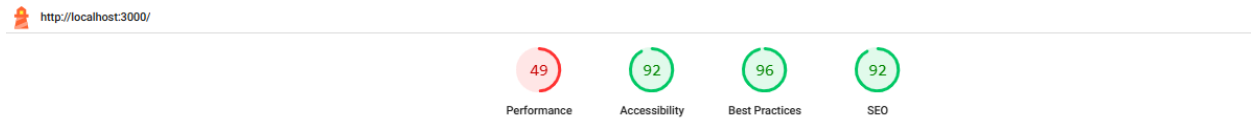
- API Testing



- Testing Report

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Remarks	Assigned To
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	High	No issues found	
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-No issues found	
TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	Works as expected	
TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-Handled gracefully	

Performance Optimization




Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0-49 ■ 50-89 ● 90-100



METRICS		Expand view
● First Contentful Paint	1.5 s	
▲ Total Blocking Time	1,080 ms	▲ Largest Contentful Paint 8.7 s
■ Speed Index	4.6 s	● Cumulative Layout Shift 0
 View Treemap		



Best Practices

USER EXPERIENCE

- ▲ Displays images with incorrect aspect ratio

TRUST AND SAFETY

- ☒ Ensure CSP is effective against XSS attacks
- ☐ Use a strong HSTS policy
- ☐ Ensure proper origin isolation with COOP

DIAGNOSTICS

- ▲ Reduce JavaScript execution time — 2.1 s
- ▲ Minimize main-thread work — 4.1 s
- ▲ Largest Contentful Paint element — 8,670 ms
- ▲ Serve images in next-gen formats — Potential savings of 1,933 KiB
- ▲ Reduce initial server response time — Root document took 2,360 ms
- ▲ Reduce unused JavaScript — Potential savings of 41 KiB
- ▲ Page prevented back/forward cache restoration — 4 failure reasons
- Image elements do not have explicit width and height
- Minify JavaScript — Potential savings of 5 KiB
- Properly size images — Potential savings of 197 KiB
- Defer offscreen images — Potential savings of 1,363 KiB
- Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB
- Avoid enormous network payloads — Total size was 3,936 KiB
- ☐ Avoid long main-thread tasks — 8 long tasks found

CONTRAST

▲ Background and foreground colors do not have a sufficient contrast ratio.



These are opportunities to improve the legibility of your content.

NAMES AND LABELS

▲ Links do not have a discernible name



These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

PASSED AUDITS (24)

Show

NOT APPLICABLE (31)

Show



SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

CRAWLING AND INDEXING

▲ robots.txt is not valid Lighthouse was unable to download a robots.txt file



To appear in search results, crawlers need access to your app.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

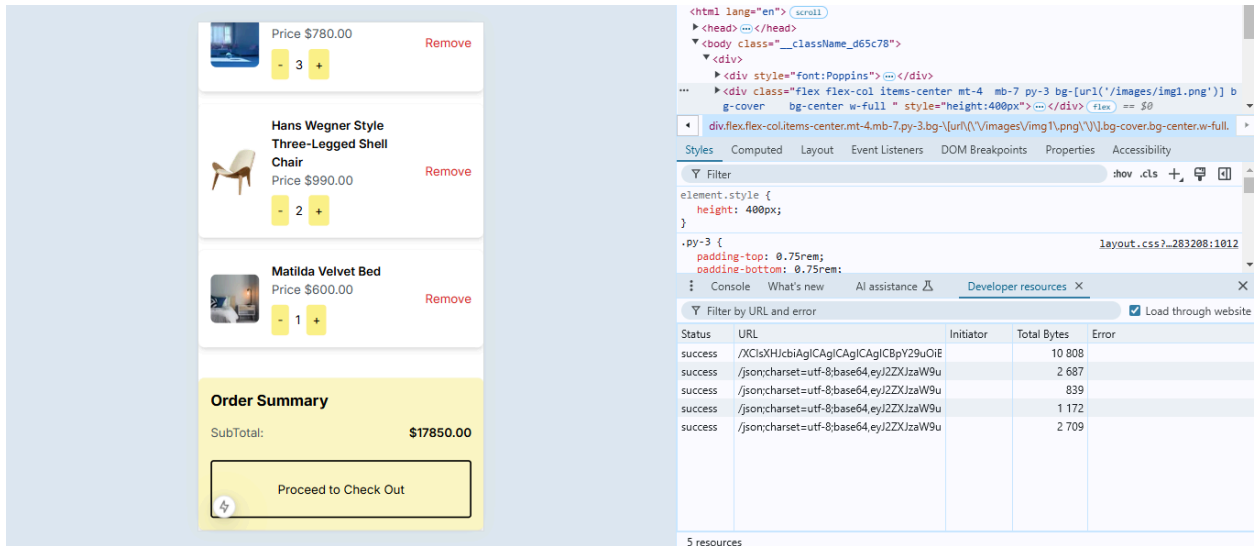
Show

Run these additional validators on your site to check additional SEO best practices.

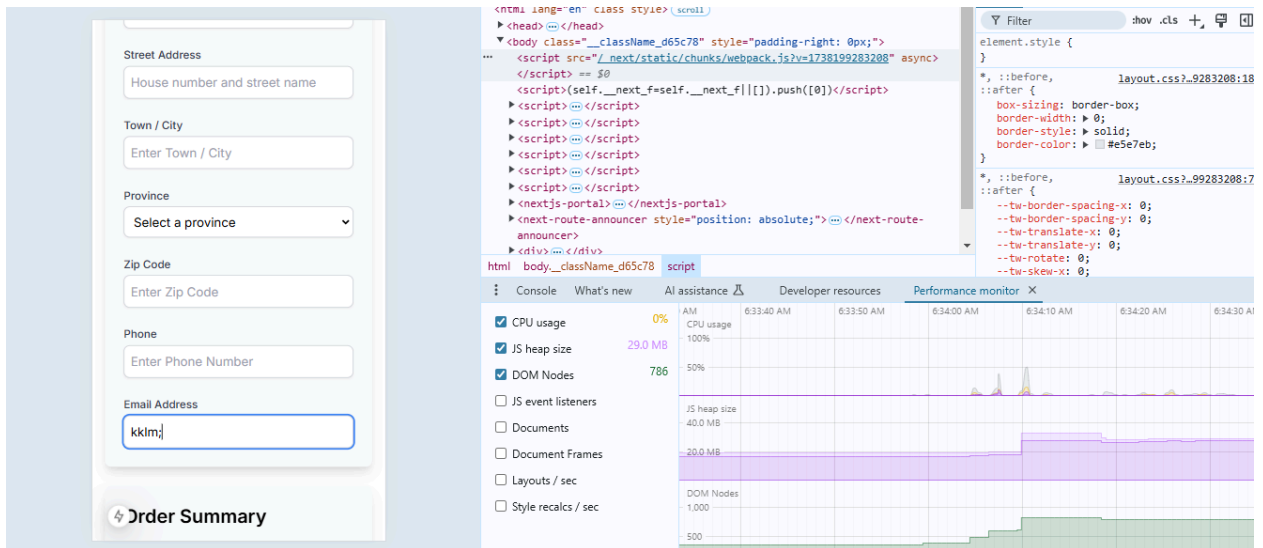
PASSED AUDITS (8)

Show

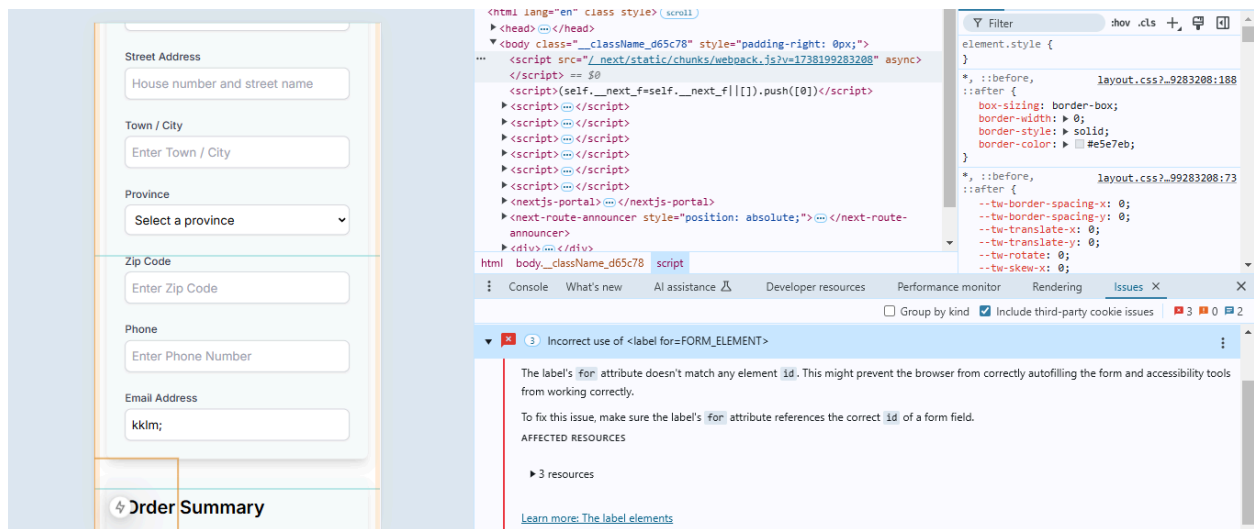
- **Developer Resources**



- **Performance Monitor**

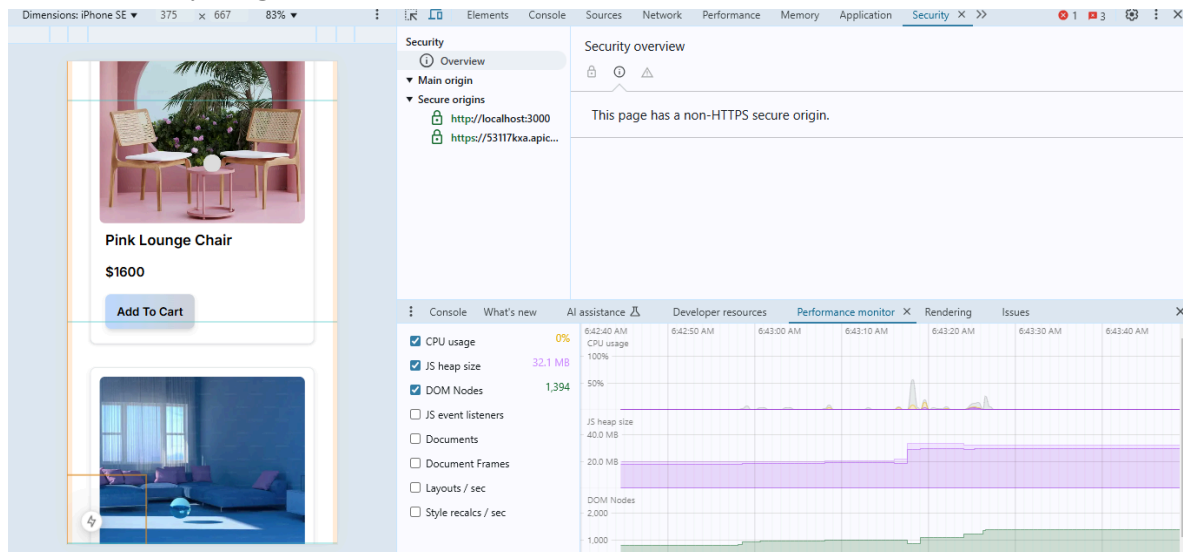


• Error/Issues



The screenshot shows a web form with fields for Street Address, Town / City, Province, Zip Code, Phone, and Email Address. Below the form is an 'Order Summary' button. To the right, the Chrome DevTools console is open, displaying an error: 'Incorrect use of <label for=FORM_ELEMENT>'. The error message states: 'The label's for attribute doesn't match any element id. This might prevent the browser from correctly autofilling the form and accessibility tools from working correctly. To fix this issue, make sure the label's for attribute references the correct id of a form field. AFFECTED RESOURCES'.

• Security Origin



The screenshot shows a web page with a 'Pink Lounge Chair' for \$1600. Below the chair is an 'Add To Cart' button. To the right, the Chrome DevTools Security panel is open, showing a warning: 'This page has a non-HTTPS secure origin.' The panel lists the following secure origins: 'http://localhost:3000' and 'https://53117kxa.apic...'. Below the Security panel, the Performance monitor is visible, showing CPU usage, JS heap size, and DOM Nodes over time.